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An incremental algorithm for software analysis

Martin Carroll, Barbara G Ryder
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An incremental update algorithm modifies the solution of a problem that has been changed, rather than re-solving the entire problem. ACINCF and ACINCB are incremental update algorithms for forward and backward data-flow analysis, respectively, based on our equations model of Alien-Cocke interval analysis. In addition, we have studied their performance on a "nontoy" structured programming language L. Given a set of localized

http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=27172042&CFTOKEN=69179037 Results (page 1): incremental software update

accurate than those obta ...

Keywords: Code optimization, Control flow, Data flow, Debugging, Internal program representation, Interpreter, Program slice, Software complexity metrics

8 Linguistic support for the evolutionary design of software architectures T. C. Nicholas Graham, Tore Urnes May 1996 Proceedings of the 18th international conference on Software engineering

Full text available g out/1.42 Ms). Additional Information: full citation, abstract, references, citings, index terms

As a program's functionality evolves over time, its software architecture should evolve as well so that it continues to match the program's design. This paper introduces the architecture language of Clock, a language for the development of interactive, multiuser applications. This architecture language possesses three properties supporting the easy restructuring of software architectures: restricted scoping supported by a constraint-based communication system, automatic message routing, and easy ...

**Keywords:** Clock, Clock-Works programming environment, architecture language, automatic message routing, constraint-based communication, high level languages, interactive systems, interactive systems, interactive programming environments, restricted scoping, software architectures, software engineering, visual syntax

Compilers I: A framework for incremental extensible compiler construction Collipiers I. A remework for indictional background Company Constitution Steven Carroll, Constantine Polychronopoulos
June 2003 Proceedings of the 17th annual international conference on
Supercomputing
Full text available: 日本社 (182,20,18)
Additional Information: full distation, electract, references, index terms

Much of the research in compiler design and optimization has traditionally focused on the effectiveness and efficiency of code optimization. However, the subject of efficiency of the entire compilation process itself (as opposed to the complexity of individual analysis or optimization algorithms) remains a highly complex and less investigated topic. In this paper we present a global approach to extensible and efficient compiler design, which aims at also improving the effectiveness and efficienc ...

Keywords: compilers, extensibility, incremental analysis

10 Matching-based incremental evaluators for hierarchical attribute grammar dialects

Alan Carle, Lori Pollock
March 1995 ACM Transactions on Programming Languages and Systems (TOPLAS),
Volume 17 Issue 2

Additional Information: full citation, abstract, references, citings, index Full text available: 2 pdf(2,28 MB) terms, review

Although attribute grammars have been very effective for defining individual modules of language translators, they have been rather ineffective for specifying large program-transformational systems. Recently, several new attribute grammar "dialects" have been developed that support the modular specification of these systems by allowing modules, each described by an attribute grammar, to be composed to form a complete system. Acceptance of these new hierarchical ...

Keywords: attribute grammar, hierarchical specifications, incremental evaluation, language translation, translators

program changes in a program written in L, we identify ...

4 Parallel and distributed incremental attribute evaluation algorithms for multiuser software development environments
Gall E. Kalser, Simon M. Kaplan
January 1993 ACM Transactions on Software Engineering and Methodology (TOSEM),
Volume 2 Issue 1

Additional Information: full citation, abstract, references, citings, index Full text available: Dpdf(3,09 MB)

The problem of change propagation in multiuser software development environments distributed across a local-area network is addressed. The program is modeled as an attributed parse tree segmented among multiple user processes and changes are modeled as subtree replacements requested asynchronously by individual users. Change propagation is then implemented using decentralized incremental evaluation of an attribute grammar that defines the static semantic properties of the p ...

**Keywords:** attribute grammar, change propagation, distributed, incremental algorithm, parallel, reliability

5 Incremental analysis of side effects for C software system Jyh-Shlarn Yur, Barbara G. Ryder, William A. Landi, Phil Stocks
May 1997 Proceedings of the 19th international conference on Software engineering Full text evailable: pdf(1,90 MB) Additional Information: full citation, references, citings, index terms

Keywords: dataflow analysis, incremental analysis

6 Incremental data flow analysis

Barbara G. Ryder January 1983 Proceedings of the 10th ACM SIGACT-SIGPLAN symposium on Principles of programming languages

Full text available: 17 pdf(665, 20 KB) Additional Information: full citation, abstract, references, citings

In this paper we present ACINCE and ACINCB, incremental update algorithms for forward In this paper we present ACINCF and ACINCB, incremental update algorithms for forward and backward data flow problems, which are based on a linear equations model of Allen/Cocke interval analysis [Allen 77, Ryder 82a]. We have studied their performance on a robust structured programming language L. Given a set of localized program changes in a program in L, we can identify a priori the nodes in its flow graph whose corresponding data flow equations will be affected by the ch ...

7 The program dependence graph in a software development environment
Karl J. Ottenstein, Linda M. Ottenstein
April 1984 Proceedings of the first ACM SIGSOFT/SIGPLAN software engineering
symposium on Practical software development environments, Volume 19, 9
Issue 5, 3

Full text available: Dpdf(942.88 KB)

Additional Information: full citation, abstract, references, citings, index terms

The internal program representation chosen for a software development environment plays a critical role in the nature of that environment. A form should facilitate implementation and contribute to the responsiveness of the environment to the user. The program dependence graph (PDG) may be a suitable internal form. It allows programs to be siliced in linear time for debugging and for use by language-directed editors. The silices obtained are more

9/9/04http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=27172042&CFTOKEN=69179037 Page 3 of 6Results (page 1): incremental software update

9/9/045 Page 4 of 6.

11 Direct update of data flow representations for a meaning-preserving program restructuring tool

William G. Griswold
December 1993 ACM SIGSOFT Software Engineering Notes , Proceedings of the 1st ACM
SIGSOFT symposium on Foundations of software engineering, Volume 18
Issus 5

Additional Information: full citation, abstract, references, citings, index Full text available: Dodf(1,64 MB) terms

Automated assistance for meaning-preserving global restructuring is an approach for helping software engineers improve the structure of programs, thus lowering the costs of maintenance. The construction of a restructuring tool encounters many conflicting goals—such as simplicity, extensibility, and good performance—that cannot be met without some compromise. In particular, the current technique for assisting restructuring uses a costly program representation—a Program Dependence Graph (PDG) ...

12 Software architecture based on communicating residential environments Erik Sandewall, Claes Strömberg, Henrik Sörensen March 1981 Proceedings of the 5th international conference on Software engineering

Full text available: pdf(884,50 KB) Additional Information: full citation, abstract, references, index terms

This paper describes an alternative approach to software architecture, where the classical division of responsibilities between operating systems, programming languages and compilers, and so forth is revised. Our alternative is organized as a set of self-contained environments which are able to communicate pieces of software between them, and whose internal structure is predominantly descriptive and declarative. The base structure within each environment (its divers ...

13 Connecting software components with declarative glue

Brian W. Beach June 1992 Proceedings of the 14th International conference on Software engineering Full text available: pdl(1.33 MB)

Additional Information: full citation, references, citings, index terms

14 Incremental computation of complex Object queries

October 2001 ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications, Volume 36 Issue 11

Full text available: pdf(226.82 KB) Additional Information: full citation, abstract, references, index terms

The need for incremental algorithms for evaluating database queries is well known, but constructing algorithms that work on object-oriented databases (OODBs) has been difficult. The reason is that OODB query languages involve complex data types including composite objects and nested collections. As a result, existing algorithms have limitations in that the kinds of database updates are restricted, the operations found in many query languages are not supported, or the algorithms are too complex t ...

15 Incremental cryptography and application to virus protection

Mihir Bellare, Oded Goldreich, Shafi Goldwasser

May 1995 Proceedings of the twenty-seventh annual ACM symposium on Theory of

computing

Full text available: pdf(1.65 MB) Additional Information full citation, references, citags, index terms

16 A methodology for testing spreadsheets Gregg Rothermel, Margaret Burnett, Lixin Li, Christopher Dupuis, Andrei Sheretov January 2001 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 10 Issue 1

Full text available: Apdf(353,65 KB) Additional Information: full citation, abstract, references, citings, index terms

Spreadsheet languages, which include commercial spreadsheets and various research systems, have had a substantial impact on end-user computing. Research shows, however, that spreadsheets often contain faults; thus, we would like to provide at least some of the benefits of formal testing methodologies to the creators of spreadsheets. This article presents a testing methodology that adapts data flow adequacy criteria and coverage monitoring to the task of testing spreadsheets. To accommodate ...

Keywords: software testing, spreadsheets

17 Incremental global reoptimization of programs

Lori L. Pollock, Mary Lou Soffa April 1992 ACM Transactions on Programming Languages and Systems (TOPLAS), 1904 1914 1914 1915

Full text available: pdf(1.88 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Although optimizing compilers have been quite successful in producing excellent code, two Aktiough optimizing compilers have been quite successful in producing excellent code, two factors that limit their usefulness are the accompanying long compilation times and the lack of good symbolic debuggers for optimized code. One approach to attaining faster recompilations is to reduce the redundant analysis that is performed for optimization in response to edits, and in particulars, small maintenance changes, without affecting the quality of the generated code. Although modular program ...

**Keywords:** compiler optimization, incremental data flow analysis, incremental reoptimization, optimization dependencies

18 Fast address lookups using controlled prefix expansion

February 1999 ACM Transactions on Computer Systems (TOCS), Volume 17 Issue 1

Full text available: pof(258.60 KB) Additional Information: full citation, abstract, references, citings, Index terms, review

Internet (IP) address tookup is a major bottleneck in high-performance routers. IP address lookup is challenging because it requires a longest matching prefix lookup. It is compounded by increasing routing table sizes, increased traffic, higher-speed links, and the migration to 18-bit IPv6 addresses. We describe how IP lookups and updates can be made faster using a set of of transformation techniques. Our main technique, controlled prefix expansion,

**Keywords**: Internet address lookup, binary search on levels, controlled prefix expansion, expanded tries, longest-prefix match, multibit tries, router preformance

19 An incremental flow- and context-sensitive pointer aliasing analysis Jyh-shlarn Yur, Barbara G. Ryder, William A. Landi May 1999 Proceedings of the 21st international conference on Software engineering

Full text available: pdf(1.29 MB) Additional Information: full citation, references, citings, index terms

Keywords: incremental analysis, interprocedural pointer aliasing, interprocedural side

<sup>20</sup> A software model and specification language for non-WIMP user interfaces Robert J. K. Jacob, Leonidas Deligiannidis, Stephen Morrison

March 1999 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 6 Issue 1

Full text available: 2 pdf(574.62 KB) Additional Information: full citation, abstract, references, citings, Index terms

We present a software model and language for describing and programming the fine-grained aspects of interaction in a non-WIMP user interface, such as a virtual environment. Our approach is based on our view that the essence of a non-WIMP dialogue is a set of continuous relationships—most of which are temporary. The model combines a data-flow or constraint-like component for the continuous relationships with an event-based component for discrete interactions, which can enable or diabl ...

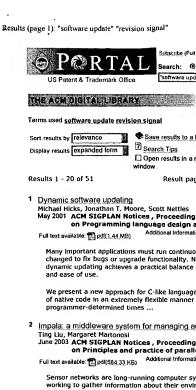
**Keywords**: PMIW, interaction techiques, non-WIMP interface, specification language, state transition diagram, user interface management system (UIMS)

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Dynamic software updating
Michael Hicks, Jonathan T. Moore, Scott Nettles
May 2001 ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2001 conference on Programming language design and implementation, Volume 36 Issue 5
additional Information: full citation, ebstract, references, citings, index terms

Many important applications must run continuously and without interruption, yet must be changed to fix bugs or upgrade functionality. No prior general-purpose methodology for dynamic updating achieves a practical balance between flexibility, robustness, low overhead, and ease of use.

We present a new approach for C-like languages that provides type-safe dynamic updating of native code in an extremely flexible manner (code, data, and types may be updated, at

Impala: a middleware system for managing autonomic, parallel sensor systems Ting Liu, Margaret Martonosi June 2003 ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposium

on Principles and practice of parallel programming, Volume 38 Issue 10

Full text available: pdf(684.33 KB)

Additional Information: full citation, abstract, references, citings, index terms

Sensor networks are long-running computer systems with many sensing/compute nodes working to gather information about their environment, process and fuse that information, and in some cases, actuate control mechanisms in response. Like traditional parallel systems, communication between nodes is of fundamental importance, but is typically accomplished via wireless transceivers. One further key attribute of sensor networks is that they are almost always long running systems, intended to operate i ...

Keywords: middleware system, sensor networks, software adaptation, software update

3 Agents, interactions, mobility and systems: Software update via mobile agent based programming
Lorenzo Bettini, Rocco De Nicola, Michele Loreti
March 2002 Proceedings of the 2002 ACM symposium on Applied computing

Additional Information: full citation, abstract, references, citings, index

http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=27172759&CFTOKEN=57625055 Results (page 1): "software update" "revision signal"

Full text available: pdf(3,14 MB) Additional Information: full citation, abstract, references, index terms

ZebraNet is a mobile, wheless sensor network in which nodes move throughout an environment working to gather and process information about their surroundings[10]. As in many sensor or wireless systems, nodes have critical resource constraints such as processing speed, memory size, and energy supply; they also face special hardware issues such as sensing device sample time, data storage/access restrictions, and wireless transceiver capabilities. This paper discusses and evaluates ZebraNet's syst ...

**Keywords**: event handling, middleware system, network communications, operation scheduling, sensor networks

8 Software architecture based on communicating residential environments Erik Sandewall, Claes Strömberg, Henrik Sörensen March 1981 Proceedings of the 5th international conference on Software engineering

Full text available: pdf(864.50 KB) Additional Information: full citation, abstract, references, index terms

This paper describes an alternative approach to software architecture, where the classical division of responsibilities between operating systems, programming languages and compilers, and so forth is revised. Our alternative is organized as a set of self-contained environments which are able to communicate pieces of software between them, and whose internal structure is predominantly descriptive and declarative. The base structure within each environment (its divers ...

Applying data mining to software maintenance records Delber Sayyad Shirabad, Timothy C. Lethbridge, Stan Matwin
October 2003 Proceedings of the 2003 conference of the Centre for Advanced Studies
conference on Collaborative research

Full text available: pdf(140.30 KB) Additional Information: full citation, abstract, references, index terms

In a system maintained over a long time period, as is the case for legacy software, there will be many unknown and non-trivial relationships among components. Finding such hidden relationships may help software engineers in their maintenance activities. In this paper we present an approach whereby we mine software update records to find relationships between files that are changed together. The generalized models we present as results are obtained by using features extracted from different sourc ...

10 DUX in practice II: Customer portal research and design

June 2003 Proceedings of the 2003 conference on Designing for user experiences Full text available: Pdf(105,28 KB) Additional Information: full citation, abstract

The goal of this project is to improve the online experience of frequent and experienced

users of PeopleSoftis customer extranet by designing and implementing a useful, usable, and satisfying Customer Portal.PeopleSoft.comis User Experience Specialist designed and executed a seven-week research program over a four-month period. The research process was split into a user-requirements gathering phase and a user- centered design phase. The project utilized a rigorous research approach ...

**Keywords**: anthropology, contextual interviews, experience design, experience strategy, focus groups, market research, portal, prototype testing, surveys, usability research, usability testing, usage study, user experience, user research, user-centered design

11 Putting OSX in an open access lab. (or "The Joy of X")

Full text available: pdf(534.28 KB)

we describe a system that permits maintaining the software installed on several we describe a system that permiss maintaining the advantage of section to section the tereogeneous computers distributed over a network by taking advantage of the mobile agent paradigm. The applications are installed and updated only on the central server. When a new release of an application is installed on the server, agents are scattered along the network to update the application on the clients. To build a prototype system we use X-KLAIM, a programming language specifically designed to pr ...

Keywords: distributed software update, mobile agents, mobile code

PLI workshops: A rule-based language for programming software updates
 Martin Erwig, Delin Ren
 December 2002 ACM SIGPLAN Notices, Volume 37 Issue 12

Full text available: 🔁 pdf(182.21 KB) Additional Information: full citation, abstract, references

We describe the design of a rule-based language for expressing changes to Haskell programs in a systematic and reliable way. The update language essentially offers update commands for all constructs of the object language (a subset of Haskell). The update language can be translated into a core calculus consisting of a small set of basic updates are update combinators. The key construct of the core calculus is a scope update mechanism that allows (and enforces) update specifications for the defin ...

Keywords: Haskell, type change, type correctness, update program, update safey

5 A rule-based language for programming software updates Martin Envisor, Deling Ren
October 2002 Proceedings of the 2002 ACM SIGPLAN workshop on Rule-based programming

Full text available: 🔁 pdf(118.18 KB) Additional Information: full citation, abstract, references, citings, index

We describe the design of a rule-based language for expressing changes to Haskell programs in a systematic and reliable way. The update language essentially offers update commands for all constructs of the object language (a subset of Haskell). The update language can be translated into a core calculus consisting of a small set of basic updates and update combinators. The key construct of the core calculus is a scope update mechanism that allows (and enforces) update specifications for the defin ...

Keywords: type change, type correctness, update program, update safey

6 Ergonomic standards for software: update for 1994 Pat Billingsley

April 1994 Conference companion on Human factors in computing systems Full text available: Dodl(53.82 KB) Additional Information: full citation

7 Wide-area monitoring of mobile objects: Implementing software on resourceconstrained mobile sensors: experiences with Impala and ZebraNet Ting Liu, Christopher M. Sadler, Pel Zhang, Margaret Martonosi Juno 2004 Proceedings of the 2nd international conference on Mobile systems, applications, and services

9/9/04 http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=27172759&CFTOKEN=57625055Page 3 of 6Results (page 1): "software update" "revision signal"

9/9/04 Page 4 of 6

September 2003 Proceedings of the 31st annual ACM SIGUCCS conference on User services

Full text available: pdf(211.45 KB) Additional Information: full citation, abstract, index terms

This paper discusses the challenges of putting Apple Macintosh OSX into open access and computer lab environments.

Keywords: Macintosh, OSX, configuration, imaging, integration, lab, labs, maintenance, open access, security, software distribution, workstation

12 Dynamic rebinding for marshalling and update, with destruct-time?
Gavin Bierman, Michael Hicks, Peter Sewell, Gareth Stoyle, Keith Wansbrough
August 2003 ACM SIGPLAN Motices, Proceedings of the eighth ACM SIGPLAN
international conference on Functional programming, Volume 38 Issue 9
Full text available: Dodf(199.01.KB) Additional Information; full citation, abstract, references, clings, index
terms.

terms

Most programming languages adopt static binding, but for distributed programming an exclusive reliance on static binding is too restrictive: dynamic binding is required in various guises, for example when a marshalled value is received from the network, containing identifiers that must be rebound to local resources. Typically it is provided only by ad-hoc mechanisms that lack clean semantics. In this paper we adopt a foundational approach, developing core dynamic rebinding mechanisms as extension ...

Keywords: distributed programming, dynamic binding, dynamic update, lambda calculus, marshalling, programming languages, serialisation

13 Recipe to lab management or the cookie cutter approach to building labs hon H. Wilson lovember 2002 Proceedings of the 30th annual ACM SIGUCCS conference on User

Full text available: 🔁 pdf(351.66 KB) Additional Information: full citation, abstract, index terms The ingredients in establishing and maintaining computer labs include determining the purpose and function of the lab; hardware and software needs; and infrastructure support. This paper outlines an approach to provide a recipe in establishing and maintaining labs. This approach attempts to lessen the guesswork and allows the lab manager to make more precise determinations when allocating resources. I have been managing computer labs for several years at Oklahoma State University and have develop ...

Keywords: budget, lab management, labor, materials

14 A component and communication model for push systems Manfred Hauswirth, Mehdi Jazayeri October 1999 ACM SIGSOFT Software Engineering Notes , Proceedings of the 7th

European software engineering conference held jointly with the 7th ACM SIGSOFT international symposium on Foundations of software engineering, Volume 24 Issue 6

Additional Information: full citation, abstract, references, citings, index Full text available: 📆 pdf(1,50 MB) terms

We present a communication and component model for push systems. Surprisingly, despite the widespread use of many push services on the Internet, no such models exist. Our communication model contrasts push systems with client-server and event-based systems. Our component model provides a basis for comparison and evaluation of different push

systems and their design alternatives. We compare several prominent push systems using our component model. The component model consists of producers an	Timothy Sherwood, Brad Calder November 2001 Proceedings of the international conference on Compilers, architecture, and synthesis for embedded systems	
15 Organizing a campus computer coordinator group Dennie Van Tassel August 1990 Proceedings of the 18th annual ACM SIGUCCS conference on User services Full text available: ∰pdf(442,54.K8) Additional Information: full cretion, ebetract index terms About three years ago the campus computer center, Computing and Telecommunications Services (CATS), started having meetings with campus computer coordinators. Those computer coordinators support academic departments, administrative departments, and microcomputer laboratories. Once a month we all get together and recommend campus computing policy for the campus, which is then passed on to a high level Vice-Chancellor computing committee. A small part of the meeting is devoted to t  16 Mobile computing and applications (MCA): A declarative framework for adaptable applications in heterogeneous environments P. Inverard, F. Manchelli, M. Ness March 2004 Proceedings of the 2004 ACM symposium on Applied computing Full text available: ∰pdf(242,30 kB) Additional Information: full citation, abstruct, references  In this paper we present an approach for developing adaptable software applications. The problem we are facing is that of a (possibly mobile) user who wants to download and execute an application from a remote server. The user's hosting device can be of different kinds (laptops, personal digital assistants, cellular phones, communicators, etc.) with specific hardware and software capabilities. The problem is to be able to decide whether the user's current device characteristics are compatible with.	Full text available: and (239,03 KB) Additional Information: full citation, abstract, references, index terms  Increased systems level integration has meant the movement of many traditionally off chip components onto a single chip including a processor, instruction storage, data path, and local memory. The design of these systems is driven by two conflicting goals, the need for reduced area and the need for rapid development times. The two current design options for instruction storage, ROM and Flash, are each highly optimized to one of these two goals but provide little compromise between them. ROM is u  20 Modules, abstract types, and distributed versioning Peter Sewell  January 2001 ACM SIGPLAN Notices, Proceedings of the 28th ACM SIGPLAN-SIGACT symposium on Principles of programming languages, volume 30 issue 3  Full text available: pdf(251.81 KB)  In a wide-area distributed system it is often impractical to synchronise software updates, so one must deal with many coexisting versions. We study static typing support for modular wide-area programming, modelling separate compilation/linking and execution of programs that interact along typed channels. Interaction may involve communication of values of abstract types; we provide the developer with fine-grain versioning control of these types to support interoperation of old and new code. The s  Results 1 - 20 of 51  Result page: 1 2 3 next	
17 Testbed directions and experience: Experience with an evolving overlay network testbed David G. Andersen, Hart Balakrishnan, M. Frans Kaashoek, Robert Morris July 2003 ACM SIGCOMM Computer Communication Review. Volume 33 Issue 3 Full took available	The ACM Portal is published by the Association for Computing Machinery. Copyright © 2004 ACM, Inc.  Terms of Usage Privacy. Policy Code of Ethics. Centact Us  Useful downloads: Actobet	
18 Migration: Optimizing the migration of virtual computers Constantine P. Sapuntzakis, Ramesh Chandra, Ben Pfaff, Jim Chow, Monica S. Lam, Mendel Rosenblum December 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue 51 Full text evailable: ∰ pd(1.68 MB) Additional Information: full citation, abstract, references, citings This paper shows how to quickly move the state of a running computer across a network, including the state in its disks, memory, CPU registers, and I/O devices. We call this state a capsule. Capsule state is hardware state, so it includes the entire operating system as well as applications and running processes. We have chosen to move x86 computer states because x86 computers are common, cheap, run the software we use, and have tools for migration. Unfortunately, x86 c		
19 Caches and Memory Systems: Patchable instruction ROM architecture		



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languages table of contents London, United Kingdom Pages: 236 - 247 Year of Publication; 2001 ISSN:0362-1340

Author Peter Sewell Computer Laboratory, University of Cambridg

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### ↑ ABSTRACT

In a wide-area distributed system it is often impractical to synchronise software updates, so one must deal with many coexisting versions. We study static typing support for modular wide-area programming, modelling separate compilation/linking and execution of programs that interact along typed channels. Interaction may involve communication of values of abstract types; we provide the developer with fine-grain versioning control of these types to support interoperation of old and new code. The system makes use of a second-class module system with singleton kinds; we give a novel operational semantics for separate compilation/linking and execution and prove soundness.

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Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

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<u>Dominic Duggan, Type-based hot swapping of running modules (extended abstract), ACM SIGPLAN Notices, v.36 n.10, October 2001</u>

### ↑ INDEX TERMS

Primary Classification: D. Software

C. D.3 PROGRAMMING LANGUAGES

C. D.3.3 Language Constructs and Features

Subjects: Modules, packages

### Additional Classification:

C. D.1 PROGRAMMING TECHNIQUES

C. D.3 PROGRAMMING LANGUAGES

C. D.3.3 Language Constructs and Features

C. Subjects: Abstract data types

K. Computing Milieux

C K.6.3 Software Management

Subjects: Software development

General Terms: Design, Languages, Performance, Theory

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- ACM SIGPLAN Notices Volume 36 . Issue 3 (March 2001)

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also details problems with using a RDBMS as the persistent store for the workflow tool and the subsequent experiences in using an ODBMS for this purpose. The final solution was a coexistence approach, using the RDBMS for legacy corporate data and the ODBMS for the process description and workflow status data.

10 Posters: Dynamic personal roles for ubiquitous computing Robert E. McGrath, M. Dennis Mickunas
October 2003 Companion of the 18th annual ACM SIGPLAN conference on Objectoriented programming, systems, languages, and applications Full text available: 📆 pdf(131.09 KB) Additional Information: full citation, abstract, references, index t

This paper presents doctoral research on a key problem for ubiquitous computing: implementation of representatives for physical objects, particularly people. This poster outlines an approach to implementing dynamic personal roles suitable for a ubiquitous computing environment.

Keywords: post-object programming, roles, ubiquitous computing

11 A Status Report on Computing Algorithms for Mathematical Programming William W. White September 1973 ACM Computing Surveys (CSUR), Volume 5 Issue 3

Additional Information: full citation, references, citings, index terms Full text available: Dodf(3.02 MB)

12 Configuration control for evolutional software products
Osamu Shigo, Yoshio Wada, Yulchi Terashima, Kanji Iwamoto, Takashi Nishimura
September 1982 Proceedings of the 6th international conference on Software engineering

Full text available: pdf(600.05 KB)

Additional Information: full citation, abstract, references, citings, index

This paper describes the concept of and a system for configuration control for evolutional software products, in which a wide spectrum of varied software products are being continuously evolved, along with rapid advancements in hardware technologies. The system contains a database for dealing with the overall configuration structure, including hierarchical product structure with change status, master file directories, difficulty occurrences and user information. The data representing the co ...

Kwang-Tat Ang, James Y. L. Thong, Chee-Sing Yap
December 1997 Proceedings of the eighteenth international conference on Information
systems

Full text available: pdf(95.41 KB) Additional Information: full citation, references, citings

Keywords: IT implementation, case study research, double-loop learning, organizational

5 A database model for effective configuration management in the programming environment

Karen E. Huff March 1981 Proceedings of the 5th international conference on Software engineering

Full text available: Doff(747,85 KB)

Additional Information: full citation, abstract, references, citings, index terms

The effective management of configurations by programmers requires automatic techniques which are operative in the program development environment. In this paper, an abstract model is developed to cover the significant aspects of a typical programming environment pertinent to configuration management, using a database to capture configuration knowledge. The two aspects of the model deal with configuration identification and configuration control. In considering configuration identification, ...

<sup>6</sup> The revised ARPANET routing metric

A. Khanna, J. Zinky
August 1989 ACM SIGCOMM Computer Communication Review, Symposium
proceedings on Communications architectures & protocols, Volume 19 Issue 4
Full text available: Pdf(1.30 MB)
Additional Information: (bif citation, abstract, references, gtings, index
terms

The ARPANET routing metric was revised in July 1987, resulting in substantial performance improvements, especially in terms of user delay and effective network capacity. These revisions only affect the individual link costs (or metrics) on which the PSN (packet switching node) bases its routing decisions. They do not affect the SPF ("shortest path first") algorithm employed to compute routes (installed in May 1979). The previous link metric was packet delay averaged over a ten s ...

7 Contexts—a partitioning concept for hypertext Norman M. Delisle, Mayer D. Schwartz

April 1987 ACM Transactions on Information Systems (TOIS), Volume 5 Issue 2 Additional Information: full citation, abstract, references, citings, index Full text available: 🔁 pdf(1.49 MB)

Hypertext systems provide good information management support for a wide variety of documentation efforts. These efforts range from developing software to writing a book. However, existing hypertext systems provide poor support for collaboration among teams of authors. This paper starts by briefly describing properties of several existing hypertext systems. Then several models for forming partitions in a hypertext database are examined and contexts, a partitioning scheme that supports multi ...

8 Shared books: collaborative publication management for an office information system State Double, commenced by ACM SIGOIS and IEEECS
April 1988 ACM SIGOIS Bulletin , Conference Sponsored by ACM SIGOIS and IEEECS
TC-OA on Office Information systems, Volume 9 Issue 2-3

Additional Information:

9/9/04http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=27174275&CFTOKEN=18476005 Page 3 of 5Results (page 1): stored revision identity

9/9/04 Page 4 of 5

13 TransformGen: automating the maintenance of structure-oriented environments
David Garlan, Charles W. Krueger, Barbara Staudt Lerner
May 1994 ACM Transactions on Programming Languages and Systems (TOPLAS),
Volume 16 Issue 3

Full text available: 1 pdf(3,10 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A serious problem for programs that use persistent data is that information created and maintained by the program becomes invalid if the persistent types used in the program are modified in a new release. Unfortunately, there has been little systematic treatment of the problem; current approaches are manual, ad hoc, and time consuming both for programmers and users. In this article we present a new approach. Focusing on the special case of managing abstract syntax trees in structure-oriente ..

Keywords: schema evolution, structure-oriented environments, type evolution

14 Revised report on the algorithmic language scheme December 1986 ACM SIGPLAN Notices, Volume 21 Issue 12

Full text available: pdf(4.06 MB) Additional Information: full citation, citings, index terms

15 Design of the Mneme persistent object store

April 1990 ACM Transactions on Information Systems (TOIS), Volume 8 Issue 2

Additional Information: full citation, abstract, references, citings, index Full text available: Dpdf(3.22 MB) terms, review

The Mneme project is an investigation of techniques for integrating programming language and database features to provide better support for cooperative, information-intensive tasks such as computer-aided software engineering. The project strategy is to implement efficient, distributed, persistent programming languages. We report here on the Mneme persistent object store, a fundamental component of the project, discussing its design and initial prototype. Mneme stores objects

16 Numerical applications: updating the product form of the inverse for the revised simplex method

Simplex meaned G. B. Dantzig, R. P. Harvey, R. D. McKnight August 1965 Proceedings of the 1965 20th national conference

Full text available: 🔁 pdf(311,02 KB) Additional Information: full citation, abstract, references, index terms

COMPUTER CODES for solving linear programs by the simplex method usually use one of three forms in representing the problem during the course of solution. These are: (a) - the standard form or original simplex method; (b) - the revised simplex method with explicit inverse; and (c) - the revised simplex method with inverse in product form]. [For a comparison of the relative efficiencies of the three methods, see text by Wolfe and Cutter2

17 Anonymous credit cards and their Collusion analysis
Steven H. Low, Nicholas F. Maxemchuk, Sanjoy Paul
December 1898 IEEE/ACM Transactions on Networking (TON), Volume 4 Issue 6 Full text available: 1 pdl(860 04 KB) Additional Information: full citation, references, citings, index terms

18 Hypertext versioning: The molhado hypertext versioning system Tien N. Nguyen, Ethan V. Munson, John T. Boyland

### August 2004 Proceedings of the fifteenth ACM conference on Hypertext & hypermedia

Full text available: pdf(943,38 KB) Additional Information: full citation, abstract, references, index terms

This paper describes Molhado, a hypertext versioning and software configuration management system that is distinguished from previous systems by its flexible product versioning and structural configuration management model. The model enables a unified versioning framework for atomic and composite software artifacts, and hypermedia structures among them in a fine-grained manner at the logical level. Hypermedia structures are managed separately from documents' contents. Molhado explicitly r ...

 $\textbf{Keywords:} \ \ \text{hypertext} \ \ \text{versioning, software configuration management, software engineering, version control}$ 

### 19 A future APL: examples and problems

M. Gfeffer July 1989 ACM SIGAPL APL Quote Quad , Conference proceedings on APL as a tool of thought, Volume 19 Issue 4
Full text available: Dodf(661.59 KB) Additional Information: full citation, abstract, citings, index terms

AIDA is a modern APL featuring operator-less syntax, function attributes, function arrays, array parts and a hierarchical object library. The above areas are illustrated by examples on a model interpreter written in SHARP APL®. The relation of the AIDA extensions to APL application systems design is discussed and some problem areas requiring further thought are identified.

### 20 Circuit diagram generation via functional logic

S. M. Shenkman

June 1973 Proceedings of the 10th workshop on Design automation

Full text available: pdf(346,37 KB) Additional Information: full citation, abstract, references, index terms

A system used by Gilbert Associates, Inc. to produce, via computer, electrical elementary wiring diagrams directly from Boolean expressions is described here. Discussion is concentrated on the aspect of using a functional input format to create circuits for control of power plant systems and equipment. Information is processed on a single medium of communication for all responsible participants. A "Functional Diagram" contains information from and for system, control, instrument ...

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### Configuration control for evolutional software products

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Tokyo, Japan Pages: 68 - 75 Year of Publication: 1982 ISSN:0270-5257

Authors Osamu Shigo roshio Wada

Yuichi Terashima Kanji Iwamoto Takashi Nishimura

IPSJ: Information Processing Society of Japan NBS: National Bureau of Standards

IEEE-CS : Computer Society
SIGSOFT: ACM Special Interest Group on Software Engineering

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This paper describes the concept of and a system for configuration control for evolutional software products, in which a wide spectrum of varied software products are being continuously evolved, along with rapid advancements in hardware technologies. The system contains a database for dealing with the overall configuration structure, including hierarchical product structure with change status, master file directories, difficulty occurrences and user information. The data representing the configuration can be in more abstract or macroscopic level than the traditional software configuration control, since the configuration manager should control the overall outlines for all software products. The concept and system described in the paper have been used for intelligent terminal software product management in NEC's Data Terminals Division.

Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

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Gen Suzukl

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### ↑ CITINGS

C. V. Ramamoorthy, Yutaka Usuda, Atul Prakash, W. T. Tsai, The Evolution Support Environment System, IEEE Transactions on Software Engineering, v.16 n.11, p.1225-1234, November 1990

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### **↑ INDEX TERMS**

### Primary Classification:

- D.2 SOFTWARE ENGINEERING
  - C. D.2.2 Design Tools and Techniques
  - Subjects: Evolutionary prototyping

### Additional Classification:

- D. Software
- D.2 SOFTWARE ENGINEERING
- D.2.9 Management
- Subjects: Productivity
- K. Computing Milieux
- ← K.6 MANAGEMENT OF COMPUTING AND INFORMATION SYSTEMS
  - ← K.6.3 Software Management
    - Subjects: Software development

### General Terms:

Management, Theory

### ↑ Collaborative Colleagues:

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